KIDMAN. 1634.

A NEW ALMANACK for the yeare of our Lord God, 1634.

Being the second after the leap-yeare, and after the 27 of March the 10 yeare of the reigne of our Sovereigne Lord king *Charles*.

Containing new and compendious tables, pleasant and usefull for all sorts of men, and not heretofore published by any.

Calculated by Thomas Kidman, *for the meridian of* Saffron-Walden *in* Essex, (*where the latitude is* 52 *degrees*) *but may serve without sensible errour any part of this kingdome of* ENGLAND.

Printed by the printers to the Universitie of *Cambridge*.

Common notes and moveable feasts.

According to the forein account.		According to our English account.
1	The golden number	1
19	The cycle of the Sunne	19
A	The Dominicall letter	G
February 26	Shrove sunday	16 Febr.
April 16	Easter day	6 April.
June 4	Whitsunday	25 May.
Decem. 3	Advent sunday	30 Novem.
23	Sundayes after Trinitie.	25

The Anatomie of Mans body, as the parts thereof are by Astrologers attributed unto the 12 signes of the zodiaque.

♈ Aries head and face.

♓ Feet.

The characters of the seven Planets with their aspects.

♄ Saturn ♃ Jupiter ♂ Mars ☉ The Sunne ♀ Venus ☿ Mercury ☽ The Moon ☌ Conjunction ☍ Opposition □ Quartile ⚹ Sextile △ Trine.

¶ A table of some of the fixt starres, shewing with what degree of the ecliptique they come to the meridian, with their declinations truely calculated, as I have taken their places from the latest & best authours, fitting for these times, especially the yeare 1640, and also their Semidiurnall arks or half continuance above our horizon.

Starres names.	degree of the ecliptick		declination.			Semidiurnall ark.	
	Sign.	*deg.*	*mi.*	*deg.*	*min.*	*hou.*	*min.*
Whales tayl *austral.*	♈	6	50	19	59 S.	4	9
The pole starre	♈	8	0	87	23 N	set not	
Lucida in cap. arie.	♈	28	43	21	45 N	8	2
Middlemost of the 7 starrs	♉	23	57	22	57 N	8	11
Bulls eye	♊	5	49	15	44 N	7	2[illegible]
The Goat.	♊	13	55	45	35 N	set not	
Orions right shoulder	♊	24	32	7	17 N	6	3[illegible]
The great dogge	♋	7	43	16	13 S.	4	3[illegible]
The lesser dogge	♋	18	36	6	8 N	6	1[illegible]
The head of Apollo prec.	♋	16	33	32	37 N	9	1[illegible]
Hydraes bright starre	♌	15	19	7	7 S.	5	3[illegible]
Lions heart	♌	25	2	13	40 N	7	1[illegible]
Lions tail	♍	22	0	16	36 N	7	2[illegible]
Virgins spike	♎	17	56	9	14 S.	5	2[illegible]
Arcturus	♍	2	15	21	34 N	8	2
The harp ♅	♍	5	38	38	29 N	set not	
Lucida corona	♐	22	16	27	58 N	8	51
The flying eagle	♑	21	32	7	58 N	6	41
Scorpions heart	♑	3	55	25	32 S.	6	29
Swannes tail	♒	4	36	44	1 N	set not	
Pegasus shoulder	♓	7	8	9	0 N	6	47
Fomahant	♓	7	39	31	27 S.	5	54
Pegasus legge	♓	10	11	26	11 N	8	36

The use of this table is by the starres to know the houre of the night: or knowing the houre, to know the starres: pleasant for scholars, gentlemen, mariners, and others.

January hath xxxi dayes.

● Full moon the 4 day, 28 minutes past 7 in the morn.
☾ Last quarter the 12 day, at 11 before noon.
● New moon the 19 day, 33 minutes past 6 in the morn.
☽ First quarter the 26 day, 4 minutes past 1 in the morn.

1	a	Circumcis.	gem	20	☉	♍	☿	☌	♒	3	57
2	b	Oct. Steph.	canc	3	22	29	♀	23	♐	3	58
3	c	Oct. John	canc	15	23	30	♃	22	♊	3	59
4	d	Oct. Innoc.	canc	27	24	32	☽	apog.		4	1
5	e	2 Sun. aft. Chr.	leo	9	25	33	♄	17	♐	4	2
6	f	Epiphanie	leo	21	26	34	♂	29	♏	4	3
7	g	Julian mart.	virg	2	27	35	△	♂	☿	17	4	4
8	a	Lucian priest	virg	14	28	37	□	☽	♄	10 p	4	5
9	b	Marcellinus.	virg	26	29	38	♂	☉	☿	7 a	4	7
10	c	Paul 1 herm.	libr	8	♒	39	△	☉	♂	1 p	4	8
11	d	Sun in aquar.	libr	20	1	40	△	☽	♃	2 p	4	10
12	e	1 Sun. aft. Ep.	scorp	3	2	41	♂	apog.	Ec.		4	11
13	f	Hilarie bish.	scorp	16	3	42	✱	☽	☿	16	4	13
14	g	Felix & Jam.	scorp	29	4	43	✱	☽	♂	1 p	4	14
15	a	Maurus	sagit	13	5	44	♂	☽	♄	☍	♃	4	16
16	b	Marcellus	sag	28	6	45	□	☽	♂	4 p	4	18
17	c	Anthonie	capr	13	7	46	♂	☽	♀	noon	4	19
18	d	Peters Chair	capr	28	8	47	☿	19	♐	4	21
19	e	2 Sun. aft. Epip.	aqu	13	9	48	♃	21	♊	4	23
20	f	Octab. Hillar.	aqu	28	10	49	☽	perig.		4	25
21	g	Agnes virg.	pisc	13	11	50	☿	20	♍	4	26
22	a	Vincentius	pisc	28	12	51	♀	18	♍	4	28
23	b	Term begins	arie	12	13	52	✱	☽	♃	16	4	30
24	c	Timothie	arie	26	14	53	□	☽	☿	☐	♀	4	32
25	d	Cony. of Paul	taur	9	15	54	△	☽	☿	23	4	33
26	e	3 Sun. aft. Epip.	taur	22	16	55	△	☽	♀	4 p	4	35
27	f	Quind. Hillar.	gem	5	17	56	♀	25	♍	4	37
28	g	Agnes secund.	gem	17	18	57	♂	o	♎	4	39
29	a	Valer. bish.	canc	0	19	57	✱	☉	♄	12 p	4	41
30	b	Martid queen	canc	12	20	58	△	☉	♃	8 p	4	43
31	c	Saturn	canc	24	21	58	△	♂	♀	noon	4	44

February hath xxviii dayes.

Full moon the 3 day, 25 min. past 2 in the morning.
Last quarter the 10 day, 46 minutes past midnight.
New moon the 17 day, 32 minuts past 4 at night.
First quarter the 24 day, 13 min. past 4 at night.

		Holy and festivall dayes	Moons place in zodia.	The Suns place.	Planets place in the zodiaque & their aspects.	Sunne set ho.	mi.
1	d	Budget Fast	leo 6	☉ ♒	♄ 20 ♐	4	46
2	e	Purification	leo 17	24 0	☽ apog.	4	48
3	f	Craft. Purif.	leo 29	25 1	♌ ♄ ♃ 17	4	50
4	g	Gilbert	virg 11	26 1	☿ 20 ♊	4	52
5	a	Agatha vir.	virg 23	27 2	△ ♂ ☿ noon	4	54
6	b	Dorothie	libr 5	28 2	☽ ♍	4	56
7	c	Augustine	libr 17	29 3	♀ 8 ♒	4	58
8	d	Sun in pisc.	scor 0	♓ 3	♂ 29 ♎	4	59
9	e	Sexagesima	scor 12	1 4	□ ☽ ♀ noon	5	1
10	f	Octab purif.	scor 25	2 4	✶ ☽ ☿ 22	5	3
11	g	Desid. bish.	sag. 8	3 4	☿ 7 ♒	5	5
12	a	Term ends	sag. 22	4 4	♀ 14 ♒	5	7
13	b	Faust virg.	capr 6	5 4	♃ 20 ♊	5	9
14	c	Valentine	capr 21	6 4	△ ☽ ♐ 10 p	5	11
15	d	Faustinus	aqu 6	7 5	♂ 26 ♎	5	13
16	e	Shrove-sund	aqu 21	8 5	☽ Perig.	5	15
17	f	Policron.	pisc 6	9 5	♄☿♉△♑♀	5	17
18	g	Simeon	pisc 21	10 5	the 16 day	5	19
19	a	Ashwednesd.	arie 6	11 5	♄ ♐ 21	5	21
20	b	Wilfred	arie 20	12 5	✶ ☽ ♃ 2 p	5	23
21	c	79 Martyrs	taur 5	13 5	☿ 24 ♒	5	25
22	d	Fast	taur 18	14 5	□ ☽ ♆ 17	5	27
23	e	Quadragesima	gem 1	15 5	□ ☽ ♀ 8 2	5	29
24	f	Matthias ap.	gem 14	16 5	□ ☽ ♂ 19	5	31
25	g	Victor mart	gem 26	17 5	♂ ♀ ☿ 16 2	5	33
26	a	Ember week	canc 9	18 5	☿ 2 ♓	5	35
27	b	Alexander	canc 21	16 5	✶ ☽ ♂ 4	5	37
28	c	Roman abot	leo 2	20 5	♃ 21 ♊	5	39

March hath xxxi dayes.

Full moon the 4 day, 34 minutes past 8 at night.
Last quarter the 12 day, 48 minutes past 10 in morn.
New moon the 19 day, 24 min. past 2 in morn.
First quarter the 26 day, 8 minutes past 9 in the morn.

1	D	David bish.	leo	14	☉	♌	☐☿♂☐☉♃	☽	41
2	E	2 Sun. in lent	leo	26	22	4	☍☉♂ at	♄	43
3	F	Maurice	virg	8	23	4	the sec. day.	♄	45
4	G	Adrian	virg	19	24	3	☐☉♄☐♃♂	♄	47
5	a	Eusebius	libr	2	25	3	the 3 day.	♄	49
6	b	Victor	libr	14	26	2	♂ per. Ep. 4 d.	♄	51
7	c	Thom. Aquin.	libr	27	27	2	☍ ♂ ☿ 2☽	♄	53
8	d	Felix	scorp	9	28	1	☍ ♄ ♓ 18	♄	55
9	e	3 Sun. in lent	scor	22	29	0	☌ apog. epic	♄	58
10	f	Sun in aries	sag	5	♈	0	☍ ♂ ☿ 17	♃	0
11	g	Troph virg	sag	19	0	59	☌ 27 ♐	♃	2
12	a	Gregory	capr	2	1	59	☌ 19 ♐	♃	4
13	b	Euphr. mart	capr	16	2	58	♂ 17 ♏	♃	6
14	c	Peter mart	aqua	1	3	58	☐♑☿ ☽ p&	♃	8
15	d	Fair at wakden	aqu	15	4	57	☍☉☿ at ☽ p	♃	10
16	e	4 Sund. in lent	pisc	0	5	56	☽ perig.	♃	12
17	f	Patrick.	pisc	15	6	55	♑ 23 ♊	♃	14
18	g	Cyrill B.	pisc	29	7	54	☽ ♌ 0	♃	16
19	a	Joseph husb. Mary	arie	14	8	53	♄ 22 ♐	♃	18
20	b	Cuthbert	arie	29	9	52	☿ 29 ♐	♃	20
21	c	Benedict	tau	13	10	51	☿ 15 ♈	♃	22
22	d	Ephrastus	tau	26	11	50	♂ 15 ♏	♃	24
23	e	Sun. in lent.	gem	9	12	49	♑ 23 ♊	♃	26
24	f	Matthi. Fast.	gem	22	13	48	△♄♂10 33 ☽	♃	28
25	g	Annun. Mar.	canc	5	14	47	✶♑☿ midn.	♃	30
26	a	Calloc mar	canc	17	15	46	☐ ☽ ☿ 1☽	♃	32
27	b	K. Charl. beg.	canc	29	16	45	△ ☽ ☿ 10 2	♃	34
28	c	Dorothy virg	leo	11	17	43	♂ 12 ♏	♃	36
29	d	Eustace	leo	22	8	43	△ ☽ ☿ 18	♃	38
30	e	Palme Sunday	virg.	5	19	41	☽ apog.	♃	39
31	f	Abelm.	vir.	16	20	40	☐ ☽ ♑ 11 ☽	♃	41

April hath xxx dayes.

● Full moon the 3 day, 22 minutes after-noon.
☾ Last quarter the 10 day, 48 minutes past 5 at night.
● New moon the 17 day, 24 min. after-noon.
☽ First quarter the 25 day, 9 minuts past 3 in the morn

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May hath xxxi dayes.

● Full moon the 3 day, at 1 in the morn.
☾ Laſt quarter the 9 day, at 11 at night.
● New moon the 16 day 10 min. after 11 at night.
☽ Firſt quarter the 24 day, 11 min. paſt 9 at night.

1	b	Phil. & James	ſcor	2	☉	♉	☿	29	♉			7	38
2	c	Athanaſius	ſcor	15	21	39	☿	22	♊			7	39
3	d	Inv. H. cross	ſcor	28	22	36	♂		15	♍		7	41
4	e	4 Sun. af. Eaſt.	ſag	12	23	34	♃	21	♋			7	42
5	f	Menſ. Paſch.	ſag	26	24	33	♂	☿	☿	9	a	7	43
6	g	John pot. lat.	capr	10	25	29	♂	☉	☿	2	p	7	45
7	a	Cleri pap.	capr	24	25	26	☿	perig.		Ep.		7	46
8	b	Appar. S. Mich.	aqua	8	27	24	♄	20	♐			7	48
9	c	Gregory biſh.	aqua	22	28	22	☽	perig.				7	50
10	d	Wed. go out.	piſc	6	29	20	♂	☽	♂	16		7	51
11	e	Rogation	piſc	20	♊	17	□	☽	♃	20		7	53
12	f	☽ & ☉ in gem.	arie	4	1	15	☽	♌	12	p		7	54
13	g	Thom. birg.	arie	18	2	12	☿	perig.	ecce			7	55
14	a	Bonif. mart	tau	2	3	9	♃	2	♋			7	56
15	b	Aſcenſion	tau	16	4	6						7	57
16	c	Craft Aſcenſ.	tau	29	5	4	△	♂	☿	22		7	59
17	d	Jodocus	gem	12	6	1	□	☽	♂	11	p	8	0
18	e	6 Sun. af. Eaſt.	gem	26	6	58	♂	☽	♄	28		8	1
19	f	Term ends	cane	8	7	55	♂	☽	♃	6	a	8	2
20	g	Bernard.	cane	22	8	53	☿		15	♊		8	3
21	a	Pellen Ma.	leo	3	9	50	□	♄	♂	20		8	4
22	b	Julia mart	leo	15	10	47	☽	apog.				8	5
23	c	Deſiderius	leo	27	11	45	☿	♂	☿	17		8	6
24	d	Serp. mart	virg	8	12	42	□	♂	☿	18		8	7
25	e	Whitſunday	virg	20	13	40	☽	♉	11	p		8	8
26	f	Eleuther. pap.	libr	2	14	37	□	☽	♃	6	p	8	8
27	g	Johan. pap.	libr	14	15	34	△	♂	☿	9	a	8	9
28	a	German biſh	ſcor	27	16	32	♂		22	♍		☿	10
29	b	Ember week	ſcor	9	17	29	☿	apog.	Ec.			8	11
30	c	Felix pap.	ſag	23	18	26	♂	☉	♄	18		8	11
31	d	Petronilla	ſag	7	19	23	♄	perig.	Ep.			8	12

June hath xxx dayes.

● Full moon the 1 day, at 11 before noon.
☾ Last quarter the 8 day, 30 min. past 6 in the morn.
● New moon the 15 day, at 11 before noon.
☽ First quarter the 23 day, 31 minutes past 2 at night.
● Full moon the last day, 18 min. past 7 at night.

1	☾	f	Trinit. Sund.	sag	21	☉	♊	☿	27	☌	♂	8	12
2	☾	g	Craft Trinit.	sag	5	21	17	☿	ent	♋		8	13
3	☾	a		capr	19	22	14	♃	7	☌	♋	8	13
4	☾	b	Petraphan.	aqu	4	23	11	♂	24		♍	8	13
5	☾	c	Corp. Christ.	aqu	18	24	9	☽	perig.			8	14
6	☾	d	Term begin	pisc	3	25	6	☿	5	☌	♋	8	14
7	☾	e	Moll. transf.	pisc	17	26	3	□	☉	☌	♂	23 a	8	14
8	☾	f	1. Sun. aft. Tr	arie	1	27	0	☌	♃	☿	☿	12	8	15
9	☾	g	Octab. Trin.	arie	15	27	57	☌	17		♐	8	15
10	☾	a	Mary Q. Sc.	arie	28	28	54	♃	9	☌	♋	8	15
11	☾	b	Sun in canc.	taur	12	29	51	☿	♊	11	♋	8	15
12	☾	c	longest day.	taur	25	♋	48	△	☽	☌	♂	5 p	8	15
13	☾	d	Anthony con.	gem	8	1	45	☌	☽	☌	♄	17	8	15
14	☾	e	Valerius	gem	21	2	43	☍	♄	☿	11 p		8	15
15	☾	f	2 Sun. aft. Tr.	canc	4	3	40	♐	ent.	♎		8	15
16	☾	g	Quind Trin.	canc	17	4	37	♌	☽	☿	4 p	8	14
17	☾	a	Botolph	canc	29	5	35	☿	21	♊		8	14
18	☾	b	Marc. mart.	leo	11	6	31	☽	apog.			8	14
19	☾	c	Gervase mar.	leo	23	7	28	♄	17		♐	8	13
20	☾	d	Silvester pap	virg	5	8	25	☿	11	☌	♋	8	13
21	☾	e	Edw. transl.	virg	17	9	22	☐	☽	☌	♄	2 p	8	13
22	☾	f	3 Sun. aft. Trin	virg	28	10	19	☽	☍	☍	4	a	8	12
23	☾	g	Tres Trin. Fast	lib	10	11	16	☐	☌	☿	21		8	12
24	☾	a	John Baptist.	lib	22	12	13	☌	☉	☿	5 p		8	11
25	☾	b	Term ends	scor	5	13	11	☿	apog.	Ep.			8	11
26	☾	c	John & Paul	scor	18	14	8	☿	8	☌	♋		8	10
27	☾	d	7 Sleepers	sag	1	15	5	△	☽	☿	18		8	9
28	☾	e	Leo pap. Fast.	sag	15	16	2	☌	☿	☿	11 p		8	8
29	☾	f	Peter apost.	sag	29	16	59	☒	☽	☌	♂	14	8	7
30	☾	g	Com. S. Paul	capr	12	17	56	☍	☽	☿	noon		8	6

July hath xxxi dayes.

☾ Last quarter the 7 day, 38 minutes past 10 in the morn.
● New moon the 14 day, 38 minuts past midnight.
☽ First quarter the 23 day, 9 min. past 4 in the morning.
○ Full moon the 30 day, 47 min. past two in the morning.

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Auguſt hath xxxi dayes.

Laſt quarter the 5 day, 19 minutes aft. 6 at night.
New moon the 13 day, 4 minutes paſt 4 at night.
First quarter the 21 day, 15 minutes paſt 5 at night
Full moon the 28 day, 33 minutes paſt 10 morning.

1	e	Lammas day	piſc	22	☉	♌	☽ ♑		7	22
2	d	Stephen	arie	6	19	28	□♄☿:□♄♆		7	20
3	c	9 Sund.aft.Tr.	arie	20	20	26	& ♂ ♀ ☿		7	19
4	f	Dominic	tau	5	21	24	♄ 15 ♐		7	17
5	g	Gowric con.	tau	19	22	22	♑ 21 ♋		7	15
6	a	Tranſfig.Dom	gem	2	23	19	♀ 19 ♍		7	13
7	b	Donatus	gem	15	24	17	✶ ♑ ☿ 8 ♉		7	12
8	c	Cyriac mart	gem	28	25	15	✶ ♑ ♀ 6 ♌		7	10
9	d	Roman mart.	canc	10	26	13	♂ ent ♍		7	8
10	e	10 Sun. aft. Tr.	canc	22	27	10	♀ 24 ♍		7	6
11	f	Tyburt mart	leo	4	28	8	☿ 25 ♍		7	4
12	g	Clare virg.	leo	16	29	6	♑ 22 ♋		7	2
13	a	Sun in virg.	leo	28	♍	1	☽ Apog.		7	0
14	b	Euſebius	virg	10	1	2	☽ ♉ 20		6	58
15	c	Aſſum. of Mar	virg	22	2	0	□ ☽ ♄ 1 ♓		6	56
16	d	Rocht confeſ.	libr	4	3	58	♂ ☽ ♀ 10 ♌		6	54
17	e	11 Sun.aft.Tr.	libr	16	4	56	♄ 15 ♐		6	52
18	f	Agapit.mart	libr	28	5	54	♑ 23 ♋		6	50
19	g	Sebaldus	ſcor	10	6	52	♂ 7 ♍		6	49
20	a	Bernard	ſcor	22	7	50	♀ 6 ♎		6	47
21	b	Athanaſius	ſag	5	7	48	☿ 1 ♎		6	45
22	c	Octa Mary	ſag	18	8	46	□ ☽ ☿ 20		6	43
23	d	Dog da. end	capr	2	9	45	□ ☽ ♀ 16		6	41
24	e	Barthol.apoſt	capr	16	10	43	♂ ☽ ♑ 5 ♉		6	39
25	f	Lewis	aqu	0	11	41	□ ☽ ♂ 10 ♉		6	37
26	g	Ireneus	aqu	15	12	39	✶ ☉ ♂ 3 ♉		6	35
27	a	Ruffin. mart	piſc	0	13	37	✶ ♑ ♀ noon.		6	33
28	b	Auguſtine	piſc	15	14	35	✶ ♑ ☿ 9 ♉		6	31
29	c	John B. behe.	arti	0	15	33	□ ☉ ♅ 3 ♉		6	29
30	d	Felix & Joan.	ari	15	16	31	♂ ☽ ♀ 7 ♉		6	27
31	e	13 Sun.aft.Tr	taur	0	17	29	☿ petrig Ep.		6	25

September hath xxx dayes.

☾ Laſt quarter the 4 day, at 6 in the morn.
● New moon the 12 day, 55 min. paſt 8 in the morning.
☽ Firſt quarter the 20 day, 39 min. paſt 3 in the morn.
○ Full moon the 26 day, 19 minuts paſt 7 at night.

1	f	Gyles Abbot	tau	14	☉	♍	♄	15	♐		6	23
2	g	Rachel	tau	28	19	27	♃	26	♋		6	21
3	a	Sir. virg.	gem	11	20	26	☌	☉	☿	6p	6	19
4	b	Theodoſia	gem	24	21	24	✶	♂	☿	20	6	17
5	c	Bertine	canc	7	22	23	□	♃	♀	22	6	15
6	d	Magni	canc	19	23	22	☿	18	♍		6	13
7	e	14 Sun. aft. Tr	leo	1	24	20	♀	4	m		6	11
8	f	Nat. M. virg. &	leo	13	25	19	♂	20	m		6	9
9	g	Sturbridge fair	leo	25	26	18	□	☽	♂	5 a	6	7
10	a	Silvius	virg	7	27	17	☽	apog.			6	5
11	b	Ebaldus	virg	19	28	16	✶	☉	♃	4p	6	3
12	c	Tobias	libr	1	29	15	□	♄	☿	fere	6	1
13	d	Sun in libra	libr	13	♎	14	☿	15	♐		5	59
14	e	15 Sun. aft. Tr.	libr	25	1	13	♃	28	♋		5	57
15	f	Holy rood the	ſcor	7	2	12	♂	26	m		5	55
16	g	14 day	ſcor	19	3	11	♀	9	m		5	53
17	a	Ember week.	ſag	2	4	10	☿	18	♍		5	51
18	b	Victorius	ſag	15	5	9	☌	☽	♄	5 p	5	49
19	c	Theodor. biſh	ſag	28	6	8	♃	29	♋		5	47
20	d	Fauſta. Faſt	capr	11	7	7	△	♃	♂	7a	5	45
21	e	Matthew apo	capr	25	8	6	♀	15	m		5	43
22	f	Maurice	aqua	13	9	5	☒	☽	♀	13	5	41
23	g	Lin. firſt pope	aqu	24	10	5	□	☽	♂	13	5	39
24	a	Androchie	piſc	9	11	4	☽	perig.			5	37
25	b	Cleophas	piſc	24	12	4	♂	3	♐		5	35
26	c	Cyprian mar	arie	9	13	3	☿	26	♍		5	33
27	d	Judith	arie	24	14	3	☒	☽	♃	12	5	31
28	e	17 Sun. aft. Tr.	tau	8	15	2	♃	1	♌		5	29
29	f	Michael arch.	tau	23	16	2	✶	♃	☿	midn i.	5	27
30	g	Hieronymus	gem	7	17	1	✶	♄	☉	15	5	25

October hath xxxi dayes.

☾ Last quarter the 3 day, at 9 at night.
● New moon the 12 day, 56 minutes past 1 in the morn.
☽ First quarter the 19 day, 47 min. after noon.
○ Full moon the 26 day, 41 minutes past 5 morning.

1	a	Remigius	gem	20	☉	♎	☿	2	♎	5	23
2	b	Leodign bish	can	3	19	0	☿	28	♏	5	21
3	c	Simplicius	can	16	20	0	♂	8	♐	5	19
4	d	Franciscus	can	28	20	59	△	♅	☿	3 p	5	17
5	e	K.Ch.ret.fr.Sp	leo	10	21	59	♅	1	♌		5	15
6	f	Oct. Mich. &	leo	22	22	59	☌	17	♐		5	13
7	g	Faith virg.	virg	4	23	59	✶	♂	☿	3 p	5	11
8	a	the 6 day	virg	15	24	59	□	♄	☽	4 p	5	9
9	b	Term begin.	virg	27	25	58	✶	☽	♅	8 p	5	7
10	c	Paul bish.	libr	9	26	58	♂	☽	☿	16	5	5
11	d	Michael.bish.	libr	21	27	58	✶	☌	☿	4 p	5	3
12	e	19 Sun.aft.Tr	scor	4	28	58	☿	10	♐		5	1
13	f	Sun in Scorp.	scor	16	29	58	♂	15	♐		4	59
14	g	Quind. Mich.	scor	29	♏	58	♅	2	♌		4	57
15	a	the 13 day	sag	12	1	58	♄	18	♐		4	55
16	b	Gallus	sag	25	2	59	□	☉	♅	4 a	4	53
17	c	Etheldred	capr	8	3	59	♂	♄	♂	4 a	4	51
18	d	Luke evang.	capr	22	4	59	☿	☽	♅	2 a	4	49
19	e	20 Sun.aft.Tri	aqua	6	5	59	♂	♄	☿	☍ p	4	47
20	f	Tres Mich.	aqu	19	7	0	□	♅	♆	6 a	4	45
21	g	11000 virg. &	pisc	4	8	0	☽	♌		23	4	43
22	a	fair at Walden	pisc	18	9	0	☽	perig.			4	42
23	b	the 21 day	arie	3	10	0	♂	♂	4 a		4	40
24	c	Solome	arie	17	11	1	♂	24	♐		4	38
25	d	Chrispin	tau	2	12	1	♂	☉	☿	1 p	4	36
26	e	Black fri. fall	tau	16	13	1	☿	26	♐		4	35
27	f	Mon.Mic.Fast	gem	1	14	2	☿	14	♏		4	33
28	g	Simon & Jude	gem	15	15	2	☌	☽	♄	11 p	4	31
29	a	Narcissus	gem	28	16	3	☿	apog.	Ep.		4	29
30	b	German	can	11	17	3	♅	3	♌		4	27
31	c	Quint.Fast.	can	24	18	4	☌	☽	♅	20	4	26

November hath xxx dayes.

☾ Last quarter the 2 day, 55 min. past 3 at night.
● New moon the 10 day, at 6 after noon.
☽ First quarter the 17 day, 10 minutes past 9 at night.
● Full moon the 24 day, 13 minutes past 6 at night.

1	d	All. saints.	leo	6	☉	m	☿	23	m				4	22
2	e	22 Sun. aft. Tr.	leo	18	20	5	☿	4	♍				4	12
3	f	Craft. anim.	virg	0	21	6	♂	1	♍				4	21
4	g	Imantius	virg	12	22	7	☽	apog.					4	19
5	a	Powder treas.	virg	25	23	7	♃	3	♎				4	17
6	b	Leonard	libr	5	24	8	△	☽	☿	16			4	16
7	c	Willibrood	libr	17	25	9	♄	21	♐				4	14
8	d	4 Crowned m.	scor	0	26	10	□	☽	♃	6	p		4	13
9	e	23 Sun. aft. Tr	scor	12	27	10	♂	☽	☿	1	p		4	11
10	f	Triph. mart.	scor	25	28	11	□	☽	♃	16			4	9
11	g	Martin bish.	sag	8	29	12	♂	☽	☿	6	p		4	8
12	a	Sun in sagit.	sag	21	♐	13	☿	apog.	Ecc.				4	7
13	b	Craft. Martin	capr	5	1	64	♂	☽	♂	p			4	5
14	c	the 12 day.	capr	19	2	15	♂	☽	☿	2	p		4	4
15	d	Leopaldus	aqu	2	3	16	△	☉	♃	11	p		4	3
16	e	24 Sun. aft. Tr.	aqu	16	4	17	☿	18	♐				4	1
17	f	Hugon bish.	pisc	0	5	18	☿	22	♍				4	0
18	g	Octab. Martin	pisc	14	6	19	☽	perig.					3	59
19	a	K. Charl. bor.	pisc	23	7	20	♂	☿	4	♓			3	57
20	b	Edmond K.	arie	12	8	21	♄	22	♐				3	55
21	c	Presen. of Ma.	arie	27	9	22	♂	15	♍				3	56
22	d	Cicily	tau	11	10	23	♃	2	♎				3	55
23	e	25 Sun. aft. Tr.	tau	25	11	24	△	☽	☿	4			3	54
24	f	Chrisogon. mart.	gem	9	12	25	✶	☽	♃	1	♓		3	53
25	g	Quind. Mart.	gem	23	13	27	☍	☽	♃	11	♓		3	50
26	a	Pet. of Vien.	canc	6	14	28	☿	2	♍				3	50
27	b	Fabricia	canc	19	15	29	☿	2	♒				3	50
28	c	Term ends	leo	2	16	30	☿	perig.	Ecc.				3	50
29	d	Saturn. Fast.	leo	14	17	31	△	☽	♄	21			3	49
30	e	☽ Andrew apo.	leo	26	18	32	☿	5	♒				3	49
		♣ Advent Sun.												

December hath xxxi dayes.

☾ Laſt quarter the 2 day, 45 minutes paſt 1 at night.
● New moon the 10 day, 44 minutes paſt 8 in the morn.
☽ Firſt quarter the 17 day, 36 minutes paſt 5 in the morn.
● Full moon the 24 day, 5 minuts after 9 in the morn.

1	f	Eligius biſh.	vir	8	☉	♐	☽	apog.			3	48
2	g	Vibian virg.	vir	20	20	35	♄	23	♐		3	48
3	a	Lucius K.	lib	2	21	36	♃	2	♏		3	47
4	b	Barbary	lib	13	22	38	♂	25	♐		3	47
5	c	Sabbe	lib	25	23	39	☌	apog.	epic.		3	46
6	d	Nicholas	ſco	8	24	40	☌	☉	♄	8 p	3	46
7	e	2 Sun. of Adv	ſco	20	25	41	☍	13	♍		3	46
8	f	Concep. Mar.	ſag	3	26	42	☿	13	♏		3	46
9	g	Joachim	ſag	17	27	43	✶	☽	♀	8 a	3	45
10	a	Melchiades	cap	0	28	43	☌	☽	♄	3 a	3	45
11	b	Damaſ. pap.	cap	14	29	47	ſhorteſt day.				3	45
12	c	Sun in capt.	cap	28	♍	48	☌	♃	☌	8 p	3	45
13	d	Lucie virg.	aqu	13	1	49	☌	☽	♀	midn.	3	45
14	e	3 Sun. of Adv.	aqu	27	2	50	♃	1	♏		3	45
15	f	Valer. biſh.	piſc	11	3	52	☽	perig.			3	45
16	g	O Sapientia	piſc	25	4	53	☿	15	♍		3	46
17	a	Ember week.	arie	9	5	54	♀	21	♐		3	46
18	b	Victor	arie	23	6	56	☌	6	♐		3	46
19	c	Nemeſ. mart.	tau	7	7	57	♄	25	♐		3	46
20	d	Ammon Faſt	tau	21	8	58	□	☽	♀	1 p	3	47
21	e	Thomas apo.	gem	5	10	0	☌	perig.	Ec.		3	47
22	f	30 Martyrs	gem	19	11	1	✶	♄	♀	9 p	3	48
23	g	Victor. virg.	cane	1	12	2	☍	☉	☿	4 p	3	48
24	a	Adam Faſt	cane	14	13	3	☿	peri	Epic.		3	49
25	b	Nat. Chriſt	cane	27	14	5	☌	☽	♃	noon	3	50
26	c	S. Stephen.	leo	10	15	7	☿	29	♐		3	51
27	d	S. John Evang	leo	22	16	9	☿	8	♍		3	52
28	e	Innocents	virg	4	17	8	☽	apog.			3	53
29	f	Thom. cant.	virg	16	18	12	♃	0	♏		3	54
30	g	Jamus tranſl.	virg	28	19	12	□	☽	♄	noon	3	56
31	a	Sylueſter	lib	9	20	13	□	☽	☿	6 a	3	57

A Table ſhewing what minutes are to be added or ſubtracted to or from the following table of the coming to the ſouth of the Moon, planets, and fixt ſtarres, to make the houres and minutes found there exact.

A Table—	[Sunnes place.]										—of Equation.	
Place of moon,	30	27	24	21	18	14	11	7	226	14	place of moon,	
planets & ſtarres.	0	3	6	9	1	15	18	22	25	2	14	planets & ſtarres.
	30	27	24	21	18	15	12	8	4	28	16	
	0	3	6	9	12	16	19	23	28	4	16	
16 16	10	9	8	7	6	5	4	3	2	1	14	14
4 28	9	8	7	6	5	4	3	2	1	0	2	26
28 4	8	7	6	5	4	3	2	1	0	1	28	2
23 8	7	6	5	4	3	2	1	0	1	2	22	7
19 12	6	5	4	3	2	1	0	1	2	3	18	11
16 15	5	4	3	2	1	0	1	2	3	4	15	14
12 18	4	3	2	1	0	1	2	3	4	5	12	18
9 21	3	2	1	0	1	2	3	4	5	6	9	21
6 24	2	1	0	1	2	3	4	5	6	7	6	24
3 27	1	0	1	2	3	4	5	6	7	8	3	27
27 3	1	2	3	4	5	6	7	8	9	10	27	3
24 6	2	3	4	5	6	7	8	9	10	11	24	6
21 9	3	4	5	6	7	8	9	10	11	12	21	9
18 12	4	5	6	7	8	9	10	11	12	13	18	12
14 15	5	6	7	8	9	10	11	12	13	14	15	16
11 18	6	7	8	9	10	11	12	13	14	15	12	19
7 22	7		9	10	11	12	13	14	15	16	17	8 23
2 26	8	8	10	11	12	13	14	15	16	17	18	4 28
26 2	9	10	11	12	13	14	15	16	17	18	19	28 4
14 14	10	11	12	13	14	15	16	17	18	19	20	16 16

Note, that as the ſignes nominated are oppoſite, *Aries* and *Libra*, *Taurus* and *Scorpio*, &c. ſo the figures for one ſerve the oppoſite ſigne.

A table to finde the coming to the South of the Moon, Planets, and fixt ſtarres.

☉ place	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	Min. ſumm. leſs
Min. ſumm. mor	♓	♒	♑	♐	♏	♎	♍	♌	♋	♊	♉	♈	
	2		4		6		8		10		12		
	mo.	leaſt	moſt	lea.	mo.	leaſt	moſt	lea.	mo.	leaſt	moſt	lea.	dgs
56	1	1	2	3	4	5	6	7	8	9	10	11	12	1	4
52	2	1	2	3	4	5	6	7	8	9	10	11	12	2	8
48	3	1	2	3	4	5	6	7	8	9	10	11	12	3	12
44	4	1	2	3	4	5	6	7	8	9	10	11	12	4	16
40	5	1	2	3	4	5	6	7	8	9	10	11	12	5	20
36	6	1	2	3	4	5	6	7	8	9	10	11	12	6	24
32	7	1	2	3	4	5	6	7	8	9	10	11	12	7	28
28	8	1	2	3	4	5	6	7	8	9	10	11	12	8	32
24	9	1	2	3	4	5	6	7	8	9	10	11	12	9	36
20	10	1	2	3	4	5	6	7	8	9	10	11	12	10	40
16	11	1	2	3	4	5	6	7	8	9	10	11	12	11	44
12	12	1	2	3	4	5	6	7	8	9	10	11	12	12	48
8	13	1	2	3	4	5	6	7	8	9	10	11	12	13	52
4	14	1	2	3	4	5	6	7	8	9	10	11	12	14	56
0	15	1	3	3	5	5	7	7	9	9	11	11	1	15	0
56	16	12	3	2	5	4	7	6	9	8	11	10	1	16	4
52	17	12	3	2	5	4	7	6	9	8	11	10	1	17	8
48	18	12	3	2	5	4	7	6	9	8	11	10	1	18	12
44	19	12	3	2	5	4	7	6	9	8	11	10	1	19	16
40	20	12	3	2	5	4	7	6	9	8	11	10	1	20	20
36	21	12	3	2	5	4	7	6	9	8	11	10	1	21	24
32	22	12	3	2	5	4	7	6	9	8	11	10	1	22	28
28	23	12	3	2	5	4	7	6	9	8	11	10	1	23	32
24	24	12	3	2	5	4	7	6	9	8	11	10	1	24	36
20	25	12	3	2	5	4	7	6	9	8	11	10	1	25	40
16	26	12	3	2	5	4	7	6	9	8	11	10	1	26	44
12	27	12	3	2	5	4	7	6	9	8	11	10	1	27	48
8	28	12	3	2	5	4	7	6	9	8	11	10	1	28	52

The uſe of the former tables.

IF you deſire to finde the coming to the South of any ſtarre, ſeek in the table of the fixt ſtarres, with what degree of the ecliptick it comes to the meridian; ſeek alſo in the fifth columne of the kalender againſt the day you deſire for the place of the ſunne, keeping in your minde the difference of the number of their degrees; and then come to the table intituled, [A table to finde the coming to the South of the moon, planets, and fixt ſtars] & under ☉ place, finde the character of the ſigne that the ſunne is in, and right againſt the ſame finde likewiſe the character of the ſigne that that ſtarre comes to the meridian with; & at the bottome of the characters you have the houre deſired: but if the one exceed the other in the number of their degrees, the ſun being leaſt; then for every degree muſt be added 4 min. to that houre, & therefore proceed downwards, guiding your eye on the right hand of that columne, until you come againſt the number of their difference in degrees, and in that place you have the houre, and on the right hand of the table the minute. But if the ſunne be moſt, then for every degree muſt be ſubtracted 4 min. from that houre found at the bottome of the characters; and therefore guide your eye downwards on the left hand of that columne, and againſt the difference of the number of their degrees ye have the houre and min. deſired; the houre on the left hand of the columne, and the min. on the left hand of the table. And that you may have their comings to the South more exact, enter with the ſuns place on the head of the table of Equation: and if the characters of the ſuns place be there red then muſt you finde the place of the ſtarre on the right hand of that table; but if the characters of the ſuns place be in black, then ſeek on the left hand of the table, and in their place of meeting you have the min. which being of the colour of their characters, are to be added to the houre and min. found by the former table: but if on the contrary colour, they are to be ſubtracted, and then the product or remainder is the exact houre and min. deſired. Ex-

Example. The 5 of January I desire to know at what houre and minute the Buls-eye comes to the South. First I seek in the table of the fixt starres, with what degree of the ecliptick that starre comes to the meridian, which I finde to be in the 5 degree of Gemini: also I seek in the 5 columne in the kalender against the 5 of January for the suns place, which is that day in the 25 degr. of Capricorn, omitting their minutes in both their places. Now I come to the table in the prognostication, and on the right hand of the table under this title ☉ place, I finde this character ♑ of Capricorn, and from that character right against the same towards the left hand of the table, I guide mine eye untill I come to the character of that signe which that starre comes to the meridian with, which is ♊ Gemini: and because the sunne being in the 25 degree, and the starre but in the 5, there is 20 degrees difference, the sunne most in the same columne, under the title of *mo.* or *most*, which is for Sunne most, I descend downwards, untill I come against 20 degrees, and there I have eight houres, and right against the same on the left hand of the table, under the title of Min. sunne most, is 40, which are minutes, which are eight houres and 40 min. Now entering again with the 25 degree of Capricorn, the sunnes place in the head of the table of Equarion, which I finde there in red characters, and the degree which is there neerest the said 25, is 26, which I take; and because I found the sunnes place in red characters, therefore I must finde the 5 degree of ♊, or for want of the fifth, the neerest, which is 4, on the right hand of the table in red characters likewise, and right against the said 4 degree of ♊, and under the 26 degr. of ♑, is 16, which are minutes; which because the said minutes are in black, contrary to the colour of their characters, therefore I subtract them from 8 houres and 40 minutes, the hour. and min. found by the first table, and there will remain 8 houres and 24 minutes, the exact time of the Buls-eye coming to the South the 5 of January.

¶ Note this, that in this table of the ſtarres coming to the South, on which ſide of the table ſoever the ſunnes place is found, the character of the ſigne of the ſtarre being on that ſide of the column neareſt the ſunnes place, his coming to the South is afternoon: as in this example, ♈ the ſunnes place, was found on the left hand of the table, and ♊ the ſtarres place, on the left hand of the columne, which was on that ſide of the columne neareſt the ſunnes place: and therefore I conclude the comming to the South of that ſtarre, to be at them houres and minutes after noon. Note alſo, that what is ſaid of a ſtarre, is as well meant of the planets or moon.

2 Example. The 22 day of March, I deſire to know the houre and minute of Mars his coming to the South. The ſunnes place that day is in the 11 of ♈: alſo I finde in the 6 columne in the kalender, the place of Mars to be in the 15 degree of Virgo: the one being in the 11 degree, and the other in the 15, there is 4 degrees difference, the ſunne leaſt. Now I look in the table intituled, A table to finde the coming to the South of the Moon, Planets, and fixt ſtarres; and there I ſeek for ♈, the character of the ſunnes place, which I finde on the left hand of the table; and right againſt the ſame towards the right hand, I ſeek for the character of ♍, the place of Mars: from which character I proceed downwards on the right hand of the columne (becauſe the ſunne is leaſt) under that title, until I come againſt 4, the difference of the number of their degrees, on the right hand of the table: and on the right hand of the columne I have the houres, which are ten, and likewiſe on the right hand of the table the minutes, which are 16; that is, at ten of the clock and 16 minutes afternoon. Now to know the errour of this table, I enter the ſunnes place with the 11 degree of ♈, on the head of the table of Equation; but becauſe the 11 degree is not there to be found, I take the neareſt unto it, which is 12, which being found in black, I muſt ſeek for ♍, the place of Mars on the left hand of the table: now becauſe the

the 15 degrees is not there, I take 14; and against that 14, and under the first found 12, on the head of the table, are minutes, which are 9: and because that 9 is black, and of the colour of the characters, I adde it to the houres and minutes found in the first table, and the product will be ten houres and 25 minutes, the exact houre and minute of Mars his coming to the South. The like is to be done with any other, as may be understood by those examples, and the other which I have formerly written.

A brief chronologie of some memorable things.

since	BRute entred this Iland	2741
	Julius Cesar reformed the yeare	1678
	Jerusalem destroyed by Titus Vespasian	1551
	Duke William conquered England	568
	Invention of Gunnes	254
	Martin Luther began to oppose the Pope	117
	Great frost in the yeare 1564	70
	Former great plague in London	30
	Powder-treason, Novemb. 5.	29
	Last great frost	26
	Last blazing starre	16

K. Edward 4 began to reigne March 4, 1460:	since	174
K. Edward 5 began to reigne April 9, 1483:		151
K. Richard 3 began to reigne June 22, 1483:		151
K. Henrie 7 began to reigne Aug. 22, 1485:		149
K. Henrie 8 began to reigne Apr. 22, 1509:		125
K. Edward 6 began to reigne Jan. 28, 1547:		87
Q. Marie began to reigne July 6, 1553:		81
Q. Elisabeth began to reigne Nov. 17, 1558:		76
K. James began to reigne Marc. 24, 1602:		32
K. Charles began to reigne Marc. 27, 1625:		9

Whose reigne God grant long to continue.

¶ Of the foure quarters of the yeare.

Of Winter.

THis Hyemal quarter, being the first according to our Astronomical account, took his beginning in the antecedent yeare 1633, the 11 of December, at 11 of the clock and 3 minutes before noon: at which time the Sun entred into the first minute of Capricorn, producing to us our shortest day, being in length but 7 houres, 29 minutes, and six seconds, which is by reason the Sunne hath then his greatest declination towards the South, his altitude upon our meridian being but 14 degrees, 28 minutes, and 30 seconds; and his amplitude of rising from the true East point towards the South, 40 degr. 25 min. This quarter continueth untill the Sun hath passed through these three winterly signes ♑, ♒, ♓, being by nature more cold then any of the other seasons; and the weather being the more agreeable to its own nature, is the better. A warm and moist winter is an enemy to husbandmen; but reasonable store of frost and snow doth ranken the fields and beget plenty.

Fierce Boreas blasts all living things do nip,
And sapleſſe trees of Summer suits do strip:
Now hills, rocks, mountains cover'd are with snow,
Which soon with flouds the valleys overflow.

Of the Spring.

THe Sunne, which is not onely the World's bright eye, but also the beginner, finisher, and divider of times and seasons, as of dayes, moneths, and yeares, having run his course in the Zodiack through the 12 signes, doth now anew begin again his task: and entring into the equidiurnall signe ♈ this tenth of March, 21 min. after eleven before noon, the day is reduced to an equall length

length with the night to us, and in all other places, except it be under the poles of the World, where they have the Sunne continuing above their horizon many dayes together. This quarter continueth until the Sun hath passed through these three Vernall signes ♈, ♉, and ♊, being more comfortable then any of the other to all things that have either life or motion. Lambes do now begin to skip and play, and the young and tender plants put forth their branches: the Sunne yeldeth heat moderately, whilest the sweet influencall showers are distilling down the little hils and valleys, whereby mans heart is inflamed with a hopefull reward of his long and wearied labours.

Of Summer.

The Sunne being now 23 degrees, 31 minutes, and 30 seconds on the North side of the Equator, which (according to the observation of Astronomers) is his greatest declination, at his first entrance into the solsticiall signe Cancer, which is this yeare the eleventh of June, 21 minutes after 3 of the clock in the morning, being the nearest to our Zenith, and our day at Walden 16 houres, 30 minutes, and 54 seconds in length, his amplitude of rising is now towards the North, not coming to the true East point till 19 minutes after 7 of the clock; and to the West 41 minutes after 4. Whereby it appeareth that nothing standing upright can give any true shadow to finde any other houre of the day then noon, as many falsly suppose. This quarter continueth until the Sun hath passed through these three signes ♋, ♌, ♍, being naturally hot and dry, bringing all things to a full perfection of ripenesse, that have been hatched and brought forth by the Spring.

Of Autumne.

Autumne the last quarter Astronomicall, beginneth the 13 day of September at six in the morning, the

Sunne then entring into the first minute of Libra, and making again the day and night of equall length. This quarter continueth until the Sunne hath passed through these three signes, viz. ♎, ♏, ♐, in which time the earth will have quite lost her beauty, and all other things wherewith our outward senses have heretofore been much delighted, will fade away: whereupon I may conclude,

OFt wants our sight that lamp of light
which passeth all in fame;
Who by his force in Northern course
cold *Boreas* blasts can tame.
Gone are those houres when *Aprils* showers
to entertain the spring,
And birds in woods on boughs and buds
did make their echoes ring.
That moneth of *May* in garments gay,
that vernall time was spide;
Now kept in aw by natures law,
and forc't to leave that pride:
Valleys that green in *June* were seen,
till now could not abide,
The scorching heat of *Julies* threat
of beauty them depriv'd.
We could not stay no not one day
of *August's* moneth so kinde,
Though well approv'd, us dearly lov'd,
as once a yeare we finde:
He doth resigne and yeeld his time
to the Autumnall season,
When leaves do fall, and eke withall
such pleasant sights are geason.
Thus seasons fast with time flie past,
so swift doth Phœbus ride,
We cannot clasp our hold so fast,
but from us soon they slide.

Of

Of eclipſes happening this yeare.

There will be this yeare 4 eclipſes, 2 of the Sunne, and 2 of the Moon. The firſt is of the Moon, and happeneth the 4 of March, the Moon being in the 24 deg. and 26 min. of Virgo, neare unto the dragons tail, the Sunne in the oppoſite place. This eclipſe will begin to appeare to us in our horizon (if clouds hinder not our ſight) 43 minutes after 6 of the clock at night: the middle will be 35 minutes after 8, and the end 26 minutes after 10. From the beginning to the ending of this eclipſe, will be 3 houres, and 43 minutes; his whole bodie being almoſt totally eclipſed.

The ſecond eclipſe is of the Sunne, the 19 of March, the Luminaries being in the 8 degree 31 min. of Aries, neare unto the dragons head. This eclipſe will appeare to them in the longitude of 138 degr. and of 48 degrees of North latitude. It will appeare to them 1 houre and 48 minutes before the Sunne come to their meridian, and continues 2 houres and 13 minutes eclipſed

The third eclipſe is of the Moon, the 28 of Auguſt: this doth happen when the Sunne is above our horizon, and the Moon beneath; therefore we cannot ſee it.

The fourth and laſt eclipſe is of the Sunne, it happeneth the 12 of September, the Luminaries being in the 29 degree of ♍, neare unto the dragons tail, appearing to them which are about 4 degrees more Eaſterly in longitude, and of South latitude 57 degrees, 6 minutes after 9 of the clock before noon; and will continue two houres and an half: and although the Sun in the time of this eclipſe be coming towards our meridian, yet he ſhall not ſee his eclipſe by reaſon of the Moons paralax, and South latitude.

Venus is Orientall, or the bright morning ſtar untill the 26 of April; then ſhe hath a conjunction with the Sun, and begins to be Occidentall, or the evening ſtarre, and ſets after the Sunne.

A table shewing the houre and minute of full sea at London-bridge any day this yeare 1634.

date	January hou. min.	February hou. min.	Mareh hou. min.	April hou. min	May hou. min	June hou. min.
1	13 S.W 11	14 S.W 18	13 S.W 4	14 S.W. 3	14 S.W 1	3 N. E. 2
2	14 0	15 2	13 51	14 45	15	4 0
3	14 52	3 N.E. 25	14 43	3 N.E. 0	3 N.E. 28	4 58
4	3 N.E 18	4 6	15 N.E 15	3 52	4 24	5 56
5	4 3	4 48	3 36	4 41	5 25	6 56
6	4 47	5 30	4 16	5 32	6 23	7 56
7	5 30	6 13	5 0	6 28	7 21	8 48
8	6 12	6 56	5 47	7 27	8 17	9 31
9	6 53	7 43	6 35	8 25	9 11	10 24
10	7 35	8 33	7 27	9 23	10 3	11 13
11	8 16	9 26	8 23	10 18	10 52	12 2
12	9 2	10 24	9 21	11 11	11 42	12 52
13	9 46	11 24	10 21	12 4	12 32	13 SW. 45
14	10 48	12 25	11 19	12 55	13 22	14 39
15	11 38	13 27	12 17	13 47	14 12	3 8
16	12 38	14 26	13 12	14 38	15 2	3 59
17	13 41	15 21	14 6	15 2	3 S.W. 35	4 51
18	14 44	38.W. 50	14 58	3 S.W 56	4 28	5 36
19	3 S.W 19	4 42	3 S.W 27	4 51	5 22	6 23
20	4 18	5 28	4 21	5 45	6 13	7 5
21	5 12	6 20	5 12	6 40	7 0	7 46
22	6 3	7 12	5 58	7 30	7 48	8 28
23	6 52	8 5	6 57	8 22	8 31	9 8
24	7 42	8 57	7 51	9 8	9 14	9 49
25	8 31	9 48	8 42	9 54	9 56	10 33
26	9 21	10 42	9 34	10 37	10 35	11 19
27	10 11	11 31	10 22	11 20	11 17	12 13
28	11 2	12 16	11 9	12 0	12 0	13 10
29	11 52		11 54	12 42	12 50	14 12
30	12 44		12 37	13 27	13 42	15 14
31	13 32		13 19		14 34	

A

A table shewing the houre and minute of full sea at London-bridge any day this yeare 1634.

days	July hou. min.	Auguſt hou. min.	September hou. min.	October hou. min.	Novemb. hou. min.	December hou. min.
1	3 N.E. 48	5 N.E. 14	6 N.E. 43	7 N.E. 24	8 N.E 45	8 N.E. 42
2	4 46	6 8	7 35	8 19	9 30	9 22
3	5 41	6 59	8 30	9 10	10 15	10 2
4	6 37	7 52	9 24	10 3	10 55	10 41
5	7 27	8 45	10 19	10 50	11 37	11 24
6	8 16	9 36	11 10	11 33	12 16	12 9
7	9 6	10 30	11 58	12 18	12 58	12 55
8	9 55	11 21	12 43	12 59	13 43	13 45
9	10 41	12 13	13 31	13 40	14 29	14 42
10	11 37	13 3	14 14	14 18	15 15	3 S.W. 14
11	12 30	13 49	14 54	15 4	3 S.W. 45	4 12
12	13 22	14 28	3 S.W. 12	3 S.W. 24	4 40	5 11
13	14 15	15 22	3 53	4 12	5 37	6 6
14	15 S.W 4	3 S.W. 41	4 36	5 1	6 33	6 58
15	3 30	4 21	5 20	5 53	7 28	7 50
16	4 14	5 4	6 10	6 47	8 22	8 38
17	5 0	5 45	6 57	7 44	9 15	9 23
18	5 45	6 27	7 49	8 40	10 7	10 17
19	6 21	7 13	8 44	9 36	10 53	11 6
20	7 2	8 0	9 36	10 30	11 43	11 59
21	7 41	8 50	0 36	11 22	12 35	12 51
22	8 26	9 46	11 36	12 14	13 25	13 47
23	9 16	10 44	12 32	13 6	14 20	14 43
24	10 0	11 41	13 26	13 57	15 17	3 N.E. 12
25	10 54	12 42	14 21	14 48	3 N.E. 45	4 2
26	11 51	13 42	15 10	15 NE 44	4 44	4 53
27	12 51	14 40	3 N.E. 38	4 11	5 37	5 40
28	13 52	3 N.E. 9	4 36	5 14	6 27	6 22
29	14 56	4 2	5 34	6 10	7 17	7 6
30	3 N.E. 26	4 55	6 27	7 4	7 57	7 44
31	4 21	5 48		7 56		8 23

Of

Of the uſe of the former table in example.

UPon the 7 of January it will be a full ſea at London-bridge, at 5 of the clock and 30 minutes, by the Moons North-eaſt, as the letters N. E. do ſhew. It is alwayes meant after noon: and ſo many as the houres and minutes there found exceed 12, ſo many hou. and minutes are to be counted after midnight.

As January the 18, it is full ſea at 14 hour. 44 min. that is, 44 minutes after three of the clock the next morning, by the Moons North-eaſting, which is upon the 19 day: alſo the ſaid 19 day it is full ſea 19 minutes after three of the clock in the afternoon, by the Moons South-weſting.

A table to finde the riſing of the Moon after her full, and ſetting after her change, calculated for the middle part of the yeare, the moon cutting the ecliptique in the 24 degree of Piſces.

☽ Sett.	☽ Riſ.	degr.	5	degr.	10	degr.	15	degr.	20	degr.	25	degr.	30
W. Weſt	*N. Eaſt*	ho.	m.	ho.	m.	ho.	m.	ho.	m.	ho.	m.	ho.	m.
Aries	Libra	3	21	3	34	3	46	3	59	4	12	4	24
Taur.	Scorp	4	37	4	49	5	1	5	13	5	24	5	35
Gem.	Sagitt	5	44	5	52	5	59	6	5	6	8	6	8
Canc.	Capri.	6	6	6	3	5	58	5	51	5	41	5	31
Leo	Aquar	5	20	5	9	4	57	4	44	4	32	4	19
Virgo	Piſces	4	7	3	54	3	41	3	29	3	16	3	4
Libra	Aries	2	51	2	38	2	26	2	13	2	0	1	48
Scorp	Taur.	1	35	1	23	1	11	0	59	0	48	0	37
Sagit.	Gem.	0	28	0	20	0	3	0	7	0	4	0	4
Capri	Canc.	0	6	0	9	0	14	0	21	0	31	0	41
Aquar	Leo	0	52	1	3	1	15	1	28	1	4	1	53
Piſces	Virgo	2	5	2	18	2	31	2	43	2	56	3	8

How

How to uſe the former tables, to finde thereby the moons riſing and ſetting.

FIrſt, ſeek in the kalender againſt the day you deſire, in the fourth columne, for the moons place: alſo ſeek in the table of Full ſea at London-bridge, for the houres and minutes of full ſea that day likewiſe: then under the title of (☽ *Set*) in this laſt table, if you ſeek for her ſetting; but if you ſeek for her riſing, then under this title (☽ *Riſe*) finde the ſigne you found her to be in in the kalender, and from that ſigne guide your eye in a ſtraight line, untill you come under the degree in the head of the table: and the houres and minutes there found, added to the houres and minutes of full ſea at London-bridge that day, the product will be your deſire: but if your number of houres exceed 12, caſt away 12 from your number, and the remainder will be the houres & min. after midnight.

Example. January the 25 ☽ would know at what houre the moon ſets; and ſeeking in the kalender, in the fourth columne, againſt the ſaid 25 of January, ☽ there finde the moons place to be that day at noon in the 9 degr. of Taurus: alſo the ſame day ☽ finde it will be full ſea at London-bridge 31 min. after 8 of the clock, by the moons South-weſting, as is there ſhewed by S. W. Then ☽ come to this laſt table, and under theſe letters S. W, or (☽ *Set*) ☽ finde Taurus, the ſigne the moon is in; from which ☽ guide mine eye in a ſtraight line, untill ☽ come under the 10 degree on the head of the table (for that is neareſt her place) and in that angle or place of meeting, are 4 houres and 49 minutes, which added to the former 8 houres and 31 minutes, the houre and minute of full ſea at London-bridge, the product will be 13 houres and 20 minutes, from which taking 12 houres away, there will be 1 houre and 20 minutes remaining: and ſo long doth the moon ſet after midnight that 25 of January, or the 26 of January in the morning.

☽ In

In like manner to finde her rising, January the 7, her place at noon is in the 2 degree of Virgo, also it will be full sea at London-bridge at five of the clock and 30 minutes: then I come to this last table, and under this title (☾ *Rise*) or these letters N. E. I finde Virgo, the Moons place; and from thence I guide mine eye in a straight line, untill I come under the 5 degree on the head of the table, and there I finde 2 houres and five minutes; which being added to the former 5 houres and 30 min. (the houre and min. of full sea at London-bridge that day) the product will be 7 of the clock, and 35 minutes, the time desired of the Moons rising that 7 of January.

Thus knowing rightly how to use these tables, the Moons risings and settings may be found with smal errour: whereas those perpetuall rules and tables written for this purpose, may be discovered to swerve much from the truth.

A table of most of the principall havens in or neare England.

LOndon, Tinmouth, Amsterdam, Gasgoin
Barwick, Ostend, Scarborough, Flamborough, Flushing
Frith, Leith, Dunbar, Narbon, Monsh. Egmon
Falmouth, Foy, Garnsey, Severnmouth, Waterford, Cork
Lin, Humber, Waymouth, Plimouth, Antwerp, Cromer
Bristoll, Lanion, Fowlnesse
Milford, Bridgewater, Northcoast, Exwater, Texwel
Portland, Peterport, Hareflew, Hague, Blanch
Orkney-pool, Orwel, S. Hellen, Flee, Eames, Ebden
Orford, Casket, Needles, Deep, Lux, Lenow,
Harwich, Dover, Yarmouth, Dublin, Bulloigne, Wight,
Calice, Rie, Winchelsey, Gorend, Calshot
Quinborough, Southampton, Portsmouth, Wellin, Spits
Rochester, Redban, Aberden, Maldon, West of Nore
Downs, Gravesend, Romney, Tenner, Ramkins
Dunde, S. Andrews, Silli, Lisbon, S. Lucas, Maze.

A tide-table, wherein is readily found the time of high water in any of these and the former havens.

London		3	1	4	1	5	1	6	1	7	1	8	1	9	1	10.	1	11	1	12	1	13.	1	14.	1	15
	b	m																								
Barwick	p	3	45	4	45	5	45	6	45	7	45	8	45	9	45	10	45	11	45	12	45	1	45	2	45	3
Frith	p	4	30	5	30	6	30	7	30	8	30	9	30	10	30	11	30	12	30	1	30	2	30	3	30	4
Falmouth	p	5	15	6	15	7	15	8	15	9	15	10	15	11	15	12	15	1	15	2	15	3	15	4	15	5
Lin	p	6	0	7	0	8	0	9	0	10	0	11	0	12	0	1	0	2	0	3	0	4	0	5	0	6
Briſtol	p	6	45	7	45	8	45	9	45	10	45	11	45	12	45	1	45	2	45	3	45	4	45	5	45	6
Milford	p	7	30	8	30	9	30	10	30	11	30	12	30	1	30	2	30	3	30	4	30	5	30	6	30	7
Portland	p	8	15	9	15	10	15	11	15	12	15	1	15	2	15	3	15	4	15	5	15	6	15	7	15	8
Orkney	p	9	0	10	0	11	0	12	0	1	0	2	0	3	0	4	0	5	0	6	0	7	0	8	0	9
Orford	p	9	45	10	45	11	45	12	45	1	45	2	45	3	45	4	45	5	45	6	45	7	45	8	45	9
Harwich	p	10	30	11	30	12	30	1	30	2	30	3	30	4	30	5	30	6	30	7	30	8	30	9	30	10
Calice	p	11	15	12	15	1	15	2	15	3	15	4	15	5	15	6	15	7	15	8	15	9	15	10	15	11
Quinborough	a	12	0	1	0	2	0	3	0	4	0	5	0	6	0	7	0	8	0	9	0	10	0	11	0	12
Rochester	a	12	45	1	45	2	45	3	45	4	45	5	45	6	45	7	45	8	45	9	45	10	45	11	45	12
Downes	a	1	30	2	30	3	30	4	30	5	30	6	30	7	30	8	30	9	30	10	30	11	30	12	30	1
Dunde	a	2	15	3	15	4	15	5	15	6	15	7	15	8	15	9	15	10	15	11	15	12	15	1	15	2

The havens against (a) are high water before London: those against (p) are after.

The use of this table in these examples following.

The 5 of January I would know when it will be full sea at Harwich. First I finde it will be full sea at London-bridge that day, 3 minutes after 4 of the clock; then I come to this table, and on the head thereof against London, I enter with the said 4: and under that 4, and against Harwich is 11 houres, to which I adde the three minutes of London-bridge, and the 30 min. in the first columne against Harwich, and the product will be 11 houres and 33 min. that is, at 11 and 33 minutes at night.

The 10 of January I would know when it will be high water at Dunde: at London it will be full sea 35 min. past 7. then I come to this table, and against London on the head thereof, I finde the houre 7, and under that 7 and against Dunde is 6, to which I adde the former minutes, which are 15 and 35, and the product will be full 6 houres and 50 min, the houres and min. desired.

A la-

A table shewing the true interest due upon any summe of money, from a shilling to an hundred pounds.

Shillings.

	1 mon			2 mon.			1 quart			4. mon.			5. mon.			half yea		
	sh.	d.	par	sh.	d.	par.	sh.	d.	par	sh.	d.	par.	sh.	d.	par	sh.	d.	par
1	0	0	2	0	0	4	0	0	6	0	0	8	0	0	10	0	0	12
2	0	0	4	0	0	8	0	0	12	0	0	16	0	0	20	0	0	24
3	0	0	6	0	0	12	0	0	18	0	0	24	0	1	5	0	1	11
4	0	0	8	0	0	16	0	0	24	0	1	7	0	1	15	0	1	23
5	0	0	10	0	0	20	0	1	5	0	1	15	0	2	00	0	2	10
6	0	0	12	0	0	24	0	1	11	0	1	23	0	2	10	0	2	22
7	0	0	14	0	1	3	0	1	17	0	2	6	0	2	20	0	3	9
8	0	0	16	0	1	7	0	1	23	0	2	14	0	3	5	0	3	21
9	0	0	18	0	1	11	0	2	4	0	2	22	0	3	15	0	4	8
10	0	0	20	0	1	15	0	2	10	0	3	5	0	4	00	0	4	20
1	0	1	15	0	3	5	0	4	20	0	6	10	0	8	00	0	9	15
2	0	3	5	0	6	10	0	9	15	1	0	20	1	4	0	1	7	5
3	0	4	20	0	9	15	1	2	10	1	7	5	2	0	0	2	4	20
4	0	6	10	1	0	20	1	7	5	2	1	15	2	8	0	3	2	10
5	0	8	0	1	4	0	2	0	0	2	8	0	3	4	0	4	0	0
6	0	9	15	1	7	5	2	4	20	3	2	10	4	0	0	4	9	15
7	0	11	5	1	10	10	2	9	15	3	8	20	4	8	0	5	7	5
8	1	0	20	2	1	15	3	2	10	4	3	5	5	4	0	6	4	20
9	1	2	10	2	4	20	3	7	5	4	9	15	6	0	0	7	2	10

Pounds

	li	sh.	d.	li	sh.	d.	li	sh.	d.	li	sh.	d.	li	sh.	d.	li	sh.	d.
10	0	1	4	0	2	8	0	4	00	0	5	4	0	6	8	0	8	0
20	0	2	8	0	5	4	0	8	00	0	10	8	0	13	4	0	16	0
30	0	4	0	0	8	0	0	12	00	0	16	0	1	0	0	1	4	0
40	0	5	4	0	10	8	0	16	0	1	1	4	1	6	8	1	12	0
50	0	6	8	0	13	4	1	0	0	1	6	8	1	13	4	2	0	0
60	0	8	0	0	16	0	1	4	0	1	12	0	2	0	0	2	8	0
70	0	9	4	0	18	8	1	8	0	1	17	4	2	6	8	2	16	0
80	0	10	8	1	1	4	1	12	0	2	2	8	2	13	4	3	4	0
90	0	12	0	1	4	0	1	16	0	2	8	0	3	0	0	3	12	0
100	0	13	4	1	6	8	2	0	0	2	13	4	3	6	8	4	0	0

Tenns of pounds.

For a yeare or any time under, calculated after the rate of 8 pound in the hundred.

Shillings

	7 mon.			8 mon.			3. quart.			10. mon.			11. mon.			a yeare.		
	sh.	*d.*	*par.*	*sh.*	*d.*	*par.*	*sh.*	*d.*	*par.*	*sh.*	*d.*	*par.*	*sh.*	*d.*	*par.*	*sh.*	*d.*	*par.*
1	0	0	14	0	0	16	0	0	18	0	0	20	0	0	22	0	0	24
2	0	1	33	0	1	7	0	1	11	0	1	15	0	1	19	0	1	23
3	0	1	17	0	1	23	0	2	4	0	2	10	0	2	16	0	2	22
4	0	2	6	0	2	14	0	2	22	0	3	5	0	3	13	0	3	21
5	0	2	20	0	3	5	0	3	17	0	4	0	0	4	10	0	4	20
6	0	3	9	0	3	21	0	4	8	0	4	20	0	5	7	0	5	19
7	0	3	23	0	4	12	0	5	1	0	5	15	0	6	4	0	6	18
8	0	4	12	0	5	3	0	5	19	0	6	10	0	7	1	0	7	17
9	0	5	1	0	5	19	0	6	12	0	7	5	0	7	23	0	8	16
10	0	5	15	0	6	10	0	7	5	0	8	0	0	8	20	0	9	15
1	0	11	5	1	0	20	1	2	10	1	4	0	1	5	15	1	7	5
2	1	10	10	2	1	15	2	4	20	2	8	0	2	11	5	3	2	10
3	2	9	15	3	2	10	3	7	5	4	0	0	4	4	20	4	9	15
4	3	8	20	4	3	5	4	9	15	5	4	0	5	10	10	6	4	20
5	4	8	0	5	4	0	6	0	0	6	8	0	7	4	0	8	0	0
6	5	7	5	6	4	20	7	2	10	8	0	0	8	9	15	9	7	5
7	6	6	10	7	5	15	8	4	20	9	4	0	10	3	5	11	2	10
8	7	5	15	8	6	10	9	7	5	10	8	0	11	8	20	12	9	15
9	8	4	20	9	7	5	10	9	15	12	0	0	13	2	10	14	4	20

Pounds

	li.	*sh.*	*d.*	*li.*	*sh.*	*d.*	*li.*	*sh.*	*d.*	*li.*	*sh.*	*d.*	*li.*	*sh.*	*d.*	*li.*	*sh.*	*d.*
10	0	9	4	0	10	8	0	12	0	0	13	4	0	14	8	0	16	0
20	0	18	8	1	1	4	1	4	0	1	6	8	1	9	4	1	12	0
30	1	8	0	1	12	0	1	16	0	2	0	0	2	4	0	2	8	0
40	1	17	4	2	2	8	2	8	0	2	13	4	2	18	8	3	4	0
50	2	6	8	2	13	4	3	0	0	3	6	8	3	13	4	4	0	0
60	2	16	0	3	4	0	3	12	0	4	0	0	4	8	0	4	16	0
70	3	5	4	3	14	8	4	4	0	4	13	4	5	2	8	5	12	0
80	3	14	8	4	5	4	4	16	0	5	6	8	5	17	4	6	8	0
90	4	4	0	4	16	0	5	8	0	6	0	0	6	12	0	7	4	0
100	4	13	4	5	6	8	6	0	0	6	13	4	7	6	8	8	0	0

Teanes or pounds.

The

The use of the former tables.

If you desire to know what interest is due upon any summe of money any time desired by these tables, seek the summe on the sides of the tables, and the time on the head of the tables, and in the angle or place of meeting you have the summe desired, in pounds, shillings, pence, and parts of pence, as the titles above shew. And note that 25 of them parts of pence make a peny.

Example

I would know what interest is due upon seven pounds for five moneths, therefore I seek for 7 on the left hand of the first table, where it is titled with pounds; and from that 7 I guide my eye in a right line, until I come under 5, the number of moneths, and in that place of meeting is 4 shillings 8 pence; which is the just summe due for 7 pounds in 5 moneths.

But if I would know what interest is due upon 17 pounds for five moneths, then I seek on the side of the table for 10 pounds, and see what interest is due upon ten pounds, which in this table is found to be 6 shillings 8 pence, which being added to the former 4 shillings and 8 pence, the summe will be 11 shill. and 4 pence, the interest due upon 17 pounds for 5 moneths.

Also I would know what interest is due upon 17 shillings for 8 moneths, and therefore I seek in the table 10 and 7 against shillings; and under 8 moneths against 10 is 6 pence and 10 parts of a peny, also against 7 is 4 pence and 12 parts of a peny; adde these two summes together, and the product will be 10 pence, and 22 parts, such as 25 of them make a peny: whereupon I conclude the interest due upon 17 shillings in 8 moneths is almost 11 pence. And in like manner may be done with other summes: As if the summe were 56 pounds, see by the tables what is due upon 50 pounds your time desired, and what is due upon 6 pounds, and adde these two summes together, and you have your desire.

¶ A table shewing how long the day is dawning before the sunne-rising, or continuance of twilight after sunne-setting: calculated for the sunnes distance of 15 degrees under the horizon.

Degrees	Capric.		Aquar.		Pisces		Aries		Taurus		Gemini		Degrees
	hou.	min	hou.	mi.	hou.	mi.	hou.	mi.	hou.	mi.	ho.	mi.	
0	1	53	1	47	1	39	1	40	1	54	2	36	30
3	1	53	1	45	1	39	1	40	1	57	2	43	27
6	1	52	1	44	1	39	1	42	2	0	2	50	24
9	1	52	1	43	1	38	1	43	2	3	2	57	21
12	1	51	1	42	1	38	1	44	2	7	3	7	18
15	1	51	1	41	1	38	1	45	2	10	3	19	15
18	1	50	1	40	1	38	1	46	2	15	3	35	12
21	1	50	1	40	1	38	1	47	2	19	continuall twilight		9
24	1	49	1	40	1	39	1	49	2	24			6
27	1	48	1	39	1	39	1	51	2	30			3
30	1	47	1	39	1	40	1	54	2	36			0
	Sagittar.		Scorpio		Libra		Virgo		Leo		Cancer		

¶ The use of this table followeth in this example.

The fourth of January the sunne is in the 24 degree of Capricorn: now coming to this table I finde Capricorn on the head of the table, from whence I proceed downwards until I come against the 24 degree on the left hand of the table, and there I finde one houre 49 min. and that is the time that the day is dawning before the sunnes rising, or the continuance of twilight after sunsetting that 4 of January: but if the sunnes place be found at the bottom of the table, then the degrees must be found on the right hand of the table: and in this manner may be finde the distance any other day, which distance may be called either the dawning or the twilight.

¶ How to finde the riſing and ſetting of the ſunne, the length of the day and night, the breaking of the day, and ending of twilight any day in the yeare.

IN the laſt columne of the Kalender ye have the houres and minutes of ſunne-ſetting every day in the yeare, which houres and minutes being doubled, you have the length of the day; or ſubtracted from 12 houres, you have the houre and minute of the ſunnes riſing: which houre and minute being doubled, ſhews the length of the night. Alſoif you adde the houre and minute of the continuance of twilight unto the hou. and min. of the ſunnes ſetting, ye have the houre and min. when twilight ends; or ſubtract the ſame houre and min. from the houre and min. of ſunne-riſing, and the remainder will be the houre and minute of the breaking of the day.

As for example: The 4 day of January the ſunnes ſetting is one minute after 4 of the clock, which houres and min. being doubled are 8 hour. and two min. which is the length of the day: or ſubtract 4 hour. and one min. from 12 houres, and there will remain 7 hour. and 59 minutes, which is the riſing of the ſunne, which houres and min. being doubled, ſhew the length of the night, that is, 15 hour. and 58 min. Alſo I found by the laſt table that the breaking of the day was one houre and 49 min. before the ſunnes riſing, which houre and minutes I ſubtract from 7 hour. and 59 min. which is the riſing of the ſunne, and the remainder will be 6 hour. and 10 min. which is the breaking of the day, or the hour. and min. that the ſunne is coming within 15 degrees of the horizon: alſo if the one hou and 49 min. be added to 4 houres and one min. which are the houres and minut. of ſunne-ſetting, the product will be the ending of twilight; that is, at five of the clock and 50 min. And on this manner may ye worke with them, for any other day.

Of measures geometricall.

Three barley corns in length make an inch, 12 inches a foot, 3 feet a yard, 5 yards and an half, or 16 feet and an half make a pole or rod, and 40 of them poles is a furlong, and 8 furlongs is an English mile.

In an English mile is contained
- 1760 yards.
- 5280 feet.
- 63360 inches.
- 190080 barley corns.

An acre by the statute is 40 poles in length, and foure in breadth.

In which is contained of square
- poles 160.
- yards 4840.
- feet 43560.
- inches 6272640.

In a foot of timber are contained of cubical square inches 1728.
But of square quarters of inches —— 110592.

In a foot of board or glasse is contained 144 square inches; and to know how much of any breadth must be had in length for a foot, divide 144, the square inches that are contained in one foot, by the inches contained in the breadth of the board or glasse, and the quotient sheweth how many inches of that breadth must be had in length for a foot.

As for example: I have a piece of glasse nine inches in breadth, by which nine I divide 144, and the quotient is 16: and so much in length of that breadth must be had for a foot. But for more ease see the following table. It is plain and easie, and good husbandry to understand it.

Breadth of the board or glasse.	how much in length for a foot. inch	part of inch.
1	144	0
2	72	0
3	48	0
4	36	0
4 & half	32	0
5	28	9
5 & half	26	2
6	24	0
6 & half	22	2
7	20	7
7 & half	19	2
8	18	0
8 & half	17	0
9	16	0
9 & half.	15	2
10	14	5
10 & half	13	8
11	13	1
11 & half	12	6
12	12	0
12 & half	11	6
13	11	1
14	10	3
15	9	7
16	9	0
17	8	5
18	8	0
19	7	7
20	7	2
21	6	10
22	6	6
23	6	3
24	6	0

¶ The use of this table.

FInde the breadth of the board or glasse on the side of the table under that title, and against the same you have the inches & parts of inches that must be had in length for a foot.

Example. Against 5 inches is 28 inches and 9 parts of an inch: and note that 12 of them parts are an inch: that is, 28 inches and three quarters in length make a foot, when the breadth is 5 inches.

Also when the breadth is five inches and a half, then 26 inches and 2 parts are a foot. If six, 24 inches in length are a foot. If six & an half in breadth, 22 inches and two parts in length are a foot. And so the like of the rest.

Of a yeare.

The yeare consisteth of twelve moneths according to the course of the sunne; but according to the common account, 13 and one day: which are called moneths of apparition, vulgarly divided into foure weeks: in which yeare is contained 365 dayes and a quarter, houres 8766, minutes 525960.

A necessa-

¶ A neceſſary table which (being cut off the book) may be ſet up in any Church: wherein is ſhewed all the Sundayes and holy-dayes, fixt and moveable feaſts, upon what day of the moneth any of them fall. 1634.

day	*Januarie.*
1	Circumciſion
5	2. Sun. af. Chr
6	Epiphanie.
12	1. S. aft. Epiph.
19	2. S. aft. Epip.
26	3. S. aft. Epip.
day	*February*
2	Septuageſim. / Purification
9	Sexageſima
16	Quinquageſi
23	Quadrageſim
24	Matthias ap.
day	*March*
2	2. Sun. in lent
9	3. S. in lent.
16	4. S. in lent
23	5. S. in lent
25	Annunciatiõ
31	6 S. in lent
day	*April*
6	Eaſter-day
13	1 Sun. af. Eaſt.
20	2. S. aft. Eaſter
25	Mark evang.
27	3. S. aft. Eaſter
day	*May*
1	Philip & Jam.
4	4. S. aft. Eaſter
11	Rogation ſun.
15	Aſcenſion day
18	6 Sun. aft. Eaſt.
25	Whitſunday
day	*June*
1	Trinity ſund.
8	1. S. aft. Trinity
15	2. S. aft. Trin.
22	3. S. aft. Trin
24	John Baptiſt
29	4. S. aft. Trin. / Peter apoſt.
day	*July*
6	5. S. aft. Trin.
13	6. S. aft. Trin.
20	7. S. aft Trin.
25	James apoſtle
27	8. S. aft. Trin.
day	*Auguſt*
3	9. S. aft Trin.
10	10. S. aft. Trin.
17	11. S. aft. Trin
24	12. S. aft Trin / Bartholemew
31	13. S. aft. Trin.
day	*September*
7	14. S. aft. Trin.
14	15. S. aft. Trin
21	16. S. aft. Tr. / Matthew ap.
28	17. S. aft. Tr.
29	Michael arch.
day	*October.*
5	18. Sun. aft. Tr.
12	19. Sun. aft. Tr.
18	Luke Evang.
19	20. Sun. af. Tr.
26	21. Sun. aft. Tr.
28	Simon & Jude
day	*November.*
1	All Saints.
2	22. Sun. af. Tr
9	23. Sun. af. Tr
16	24. S. aft. Tr.
23	25. S. aft. Tr.
30	Andrew ap. / Advent Sund.
day	*December.*
7	2. Sun. in Adv.
14	3. Sun. in Adv.
21	4. S. in Adv. / Thom. ap.
25	Chriſtmas day
26	S. Stephen.
27	S. John Evan.
28	Innocents.
29	1. Sun. aft. Chr

FINIS.